IUNE 5, 1922

AVIATION

VOL. XII. NO. 23

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AVIATION

commer of 2019-has continued it that all-metal manifests are

The Belgum from boot service on the Congo giver has gone though about identical experiences as for an wooden one nathene but of-evral construction can withstand the great

Erenze P. Wasser

furthermore remove the use of ex-cooled engines, folding colonial reflevado

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anough removed to have music time for the wediningry study

Recording Flight Manuscry PWY NEW Numbers | Adolescer Countries for Association to be statements by mean of which il become pessible to proved meter, a load sadicator and a control position recorder—in

Air Transport in the Tourier

COME highly referred an information regarding the men ness Lee Asire and L'Afronneisone. To date and then my tow Courses to St. Lanzest, whence it househes off into the Franch Courses or a martinidady franklad field for air sensor in that the country has no milypole hardly and

well and the buletant means of Denaportation are very senting consider charffy of native onnors which are

, but too, he has to pay the sentenance of the best crew matter a success were there are increasing to travel. Such in some of roads from the energial head of freezing excelable. pili see, which are very valuable for a small bulk and weight. invaled by the automoly but and having element. Hangure hall from redding once water would seep between statul and

This type of hall has given good service and weight no more.

Prospects of Contract Air Mail Services all user around weather combitions will be someiderable puts though Needrag Herrsburg, Petebusgh, Columbus, faring and Jeffenspol's to Chengo, If the Southern Prop-Address by C. G. Peterson of the Wright Agromantical Corp. At the Engineer's Club and the Flying Club of Baltimore Flacks No 5 will begre New York at 6 p. st., serving a and Warderstein would be at Harmsberr, which has been relac-Flight No. 7 to an additional plans leaving New Year and Washington could be departed later than the time of Flight No. 7 arrives as Change at S s. w. In most which one he stored by flying the mad, and give an whea of which one he deem my styring the man, and here as much in the resultive more here a developed. The court is the most be-True No. 83 leaves New York at 9 26 a. p. oursess Fight No 2 leaves Now York at 0 a. M. appropria Train No. 22 with one S P.O. our and four storage age. leaves Chicago et 3 50 a. m., activing in New York and The quantity of guirous was in several times the names. There are necessarily 230,000 betters a day and 22,000 letters. Train No. 22 with one E.P.O. our leaves Chicago at E.S. The followare charts, prepared from the present actual lay, over 28 he after it leaves Chicago mirroritest eigents. If the pict should get of the course you states. The company status, will telephone to him the source. By this method the pilot will not need to receive "Right" parallering com or one principal bear comes or Flight No 6 will fly from Change at 12 e'clock and sphone except when he desired. This leaves his attraction gare approximately every 350 miles. At those divisional Train No. 28 with three R P.O. care carrying the house New York to Chirage, contyped for day and night firing,

Fight No. 18 is to forward soil flown from other sed

of Change This mail reads he flows by my teader

the next morning with 62,000 letters advanced my

flight from New York to Chicago. We are making itt

erving one bississes day on 42,600 latters. This No 19 will one 60 ft. R.P.O. our and one obsesses

the following morning, 68% hr. after it leaves New

Fight No. 5 will take the seal from trate No. 15 at Ers., flying it to Chinago, to arrive at some for dis-

Trees No 30, so a very heavy letter trees, leaving New York at 8:40 p. m., with one 60 ft. R.F.O. our and 555, stange men, arriving in Chinge at 8 visions the next version. The stant late over and the next account. Jan 5, 2577

For summarization of the control of the defined of the control of

Fiving on 210 business days a type would man 120.

Now these flowers indicate what one he reasonably expected.

001,000 betters per your, and the cost would be less than 11/4

in Change. The second made is the present would resid receive in the fature. But it must be remembered that in appending

on long a han so thus, it will be morpothed for either the occtension on the Post Office Department to undertake a contract

of each reservicely as four plants each way daily. We have

all the come of all the side to surrention even in the larger

Stand on a 1000 in load, the \$800,000 yearly cost, plan 0 per cent, gives a vale of 1%; takin per sole per popul or 4%;

the Post Office Department. It is believed a worsky project to continue the pural stall delivery for the parameter of the

Another point to be considered in that both bills introduced

master Convert to send other mail in order to make up the

Both of the belle new before Congress give a maximum suc-

the previou that the rate should be changed to 2 sufer our

The two elements were very desely matched. At the

opport of the serial roce Brack-Papa get a shight lead and

Showing an Aviator How He Flies N.A.C.A. Develops Insenious Instruments for Recording Behavior of an Airplane in Flight

A method of acceptably recording what an ecuator does we Three special instruments here been perfected to ressed the rules. Although Suply complainted thereadyes, the ourrupon

of a fluid The first matracers as an air speed mater, a decire for ways in fight and the landing resemps when hading, taking off, or while renaise along the ground. In from through a

here, for example, the rules is sifting down hard as he green to bee held at the ten of the long. It is these variations derrors, the control until the recorder, indicates the exact popercent of the fight. After he hands, there is no amounted as

severe ture. An extensive stady of lambing and taking off In his report on the tests, Pilot Carroll points out the su-

Application of the process work is seen in descript now arplanes based upon performance tests, being advanced loading and are speed which have given has but feeting inrisary had in depend upon the memories of the best relate

In one of his recent toots, Print Countil wade an especially bed, or "presents" landing, by lavellang-off shout 6 ft. above



Fig. I. Grared core of the control position recorder dend

Further developments in perfecting these woodlag in

June 5, 1922 ducies to record the actual force or power the point applies suffer his stick back or produce a forward in a numberies pathog his start back to person at 200 cent at a pro-greenest. This, it is said will reduce whether or not the spite "Liver" with a loose or tight yees, and whether he

The pre-benness of the Countrel Parities, Recorder developed The instrument on shown in Fig. 1 counsels exceededly of point (1) solders were read regard (2) at 2 Spect on same 5

Fig. 1 Streets from the motomerst-toft, landing, mole.

which keeps the cerds would takely. Thus a 12 m morkey records are superimposed on one film at in measurage to have a saided pulse

some may of distinguishing between these. This is annouplacked by perceiving shorty in front of two of the morning a planted by becoming many in cross of two as the morney a market charter (5). One moreor therefore gives a conditional The cards can be connected shreetly to now convenient section of the control system, but if it is described to have a Some records taken by the animanest on a JN424 are shown Not the different records can be distinguished. The curves

The tactiveness and need most by the resumes any controllability and managereshibly. For this work a knowl

Trophy Races and Aeronautical Patents

ATRI IT, 1922

places of their strydeur and motor patents of three places These letters are as follows. WEIGHT ARRONAUTICAL CORPORATION

Acre Chic of Asserts.

We are in weeps of a letter from the Certisa Acresians the not therefore thank it advantals to handle this matter to to be made by a certain date. When each extrem are under to the Acro Clab. of the Acro Clab will forward on the date

The Area Clab of America or on records of fetters from the . became to not the World parabolic material, we should be some The information that should be given will be the name of

(support) C. G. Peterson. CERTISS AUBOPLANE & MOTOR COSPORATION

Gentlemen We have a cray of a letter from the Wright Accompanies necless with the use of Wright patents for planes brought

named referention be empfied to this emperation in the manner suggested by the Wright Astronomical Corp.

The Organization of Airports Information Division, Air Service Issues Revised

Specifications and Rules for Ground Organization



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surger, it is exceptful for the storens of my nevicebees that at

argents revolves in certain particulars to given standards. Laurence. The location of an appear should be an oriented at to large at within reach of ground transportation facilities.

The neededness of small fields in determined by the personal agoyoch for lending. An obstacle shout 100 ft lagh, the





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Character of Greand. The ground should be firm under Approaches—Obstacles recreasing fields, such as high buildings, bringings and briveresh, or both terrors trans-

Marieson. When a field has been set saide and been se-

the muface of the ground, on on not to abstract the religing

The international identification number should be placed on

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DAYTON I

Transfer adopted by the Air Service for identification of fermions

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Boesting American Aircraft In China The Per Bestern Besieve, a fonegost, agginerous sel commences according published in J. Priline Book, Boudha commences according published by J. Priline Book, Boudha good, not considerable administration of the conposit, not considerable administration in the Oresta boundarding deletionated administration in the Oresta of positionated principles in the Crinel States deeped (Sec. which we foreignable by the Accordant of Control which we foreignable by the Accordant of Control which we foreignable by the Accordant of Control

needed in sociaryong the inter- or this publication, Mr. 1, states are supplying I also suppose upon your good contains to go in touch with the veryon several manufactures of the United States, as the loop that they will could not see the material they have gotter together, with photograph of convenient. You night not then to meed in photograph

Notices to Aviators

Tassed by Hydrographic Office, U. S. Nazy

Tas pilowing leading fields * hars how reported to the
glast of the Chief of the Service name Jun. 1, 1922

Consensus

Tasset-rel-Latitation 42* * 67* N. Integrable 72* 35' W.

Zell-Weyn-Latitation 42* * 68* N. Integrable 72* 35' W.

Application-Leithale 29° 44° N, longitude 84° 80° W. Lindler for combines only dates (*** Springer-Leiflande 20° 20° N, hospitude 83° UN, Landley for insplance only. Jankley-Leithale 20° 10° N, longitude 83° 50° W.

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Real Remarkatively 34° 00° N., Imagriede 89° 60° W.
Reported by the Matanual Alexanda Underwritten Association to data.
Dilutes
Address (Chinago)—Lacitade 41° 40° N., Imagriede 89°

Arm. Chie of Bhanas Fandi, 19 meles from Congress Meiely, and the content Kine hatports argued who was impedien and state the hatport of the congress who was impedien and staffer for Right Of Digital Company Flying School. (See Males to Armaton 3 (OH) of 2022), beginning for 20 W. Far weighten solely, difficult backley in cross winder (Swig-Bat Anchor ranto to used), fall Real backley in cross winder (Swig-Bat Anchor ranto to used), fall coderies in software. Conv. Latitude 27 ° OF N. haspitades 69° 37 W. Far weighten overy chiefy shall anchor must be used), fall for confidence overy chiefy shall anchor must be used), fall

Andreson—Latitude 49° 00° N, heaptings 50° 40° W. El acco, resist and operated by E. D' Bredges. Kentoniy Barbon-vikt—Ladinals 20° 50° N, heaptings 50° 50° W. Commercial Ed3 and frying school. Erroriers—Lantatio 20° 50° N, heaptings 40° 30° W.

Maine Autoro-Lalitade 44° 00° N., lengkade 70° 10° W Northwat Airplane Ca. Field; small.

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Ocean Coty-Latenda St. 20" N, longistade TE" 00" W, Scophian only, Coty 41" N, longistade TE" 10" W, Cotybian Coty, Coty 41" N, longistade TO" 11" W Schlierer, Latenda N: "St. longistade TO" 10" W

Ashara—Latitude 42° 11° N. Jangatahn 71° 49° W. Seorgeory 900 by 1000 ft., stone stall rocks east east. Only models—tailed 40° 12° N. Jangatahn 72° 40° W. Seorgeory 900 by 1000 ft., stone stall rocks east east. Only models—tailed 40° 10° N. Jangatahn 72° 00° W. Se sides sawis of Bentre, on race track. Land seat and west on such track only 2° 10° N. Jangatahn 70° 50° W. Downers—Latitude 42° N. S. Jangatahn 70° 50° W. Sentreports 10° green, speaks, socks of reservency, shong good.

Secretary (1994) of 1997. Secretary of 1997. Secret

Section 4. Selection of the Control and Selection of the Selection o

pond.

Printerprocedured 45° 22° N₁ long-bade 34° 36° N°.

Printerprocedured 45° 22° N₂ long-bade 34° 36° N°.

Printerprocedured 25° 40° N°, long-bade 34° 26° N°.

Printerprocedured 25° 40° N°, long-bade 35° 26° N°.

Printerprocedured 25° 40° N°, long-bade 35° 26° N°.

Printerprocedured 35° 40° N°, long-bade 35° 36° N°.

Printerprocedured 35° 30° N°, long-bade 35° 36° N°.

Pagress—Lebinda 65° 20° N., longitude 63° 50° W.
For greene, b)-nide track; I nides neat of town; elser
appearen.

Preserve Objo-Latinde 64° 55° N., longitude 55° 35° W.

Inaplanas subj. old; on spen labor, weather meet be weather.

Manietyal fair grounds; 800 by 200 ft, sa by male truck; Natcher Latitude 21" 34" N., Innelinde 21" 20" W.

No tata. Terpov Lako-Latinski 44° 13' N , knaptude 74° 18' W. Coley Farm Field; 500 by 1500 ft.; good, faired, along General Sus-Lattade 40" 50" N., longuade 70" 50" to Energypey field, Savyille suits toyen near



Left-Fire configure of the Western Airway See!, Seed up for respection at Marina Field, San Francisco, parriage to the

sales from town, out of resirons roomany, red hanger on Scattempton-Laborate 50" 51" N , lengtage 22" 25" W. Evanisth - Lettede 60° 00' N , longitude 74° 14' W Tracement No date Freedom, Lettrate 45° 50' X, loughtede 75° 26' W. Port Marry-Latitude 48" AT N. Investude 74" M. W.

Rentice Faid, connercial; principle of the Wrockinians-Latende 40° 92' N., longitude 74° 37' W.

Subseque-Language 40° 90° N., howeverly 29° 12° W. Military Academy Field, 500 to 300 yd., good when wat denotes—Labbade 43° 48° N., lengticals 77° 50° W. Entergrant field 1500 by 1900 ft., two solice notice of layer; Lake Granzo-Lettedo 43° 20' N., longitude 73° 42° W., Sampleson only, excellent handner fortillet, recommence Newborok-Latitude 41° 30' K, longwoods 74° 90' W

Sergindes supp., no deta. Environ-Leptude 15° 15' N., longinude 77° 34' W Reported to the National Assertit Undersystem Associa-Workbroky Read-Lattade 24° EF N. lengtade 26

Jun 5, 1922 Jane & Sec.

> Ramprosp; marr old faur grounds; 2000 by 2000 fl.; ideal. Pron-ri-Labrade 41° 30° N., lengtide 52° 30° W Christy Faum Field, 700 by 1200 (h., sécal Field of the Landon Arre Club (Lee.), 1989 C. source. hanner expedien mour, exportee. En revo-Latriede 41° 10′ N., kendende 52° 10′ W.

Shares - Lattinda 60° NO' X - Insurincia 51° 60° W

Schlolen-Letteds 60° 17' N , locateds 75° 22' W Post-poncy, 1900 by 1500 ft , 5 miles seath of term Despite - Labrade 49° 22° N, long-bade 28° 67° W Field of the Irwn Aucraft Corp., 20 miles east of Piets. Protector-Lettinde 41° 50' N. Issortada 71° 22' W. Daniel-Leffinds 41° 35' N. longitude 73° 25' W.

Semplemen cody, no dets. Discretela SC 'SV' M. Describela SC' SV' M. Describela SC' SV' M. Assist and street, expressed statue.

Field of the Memphus Armel Co ; sear country slub; han-Energypary, cond. marked with 199.61 grade.

Number of the Print, and the Exact Companies of the Print W. N. Companies of the W. W.

The Latest Air Express of the London-Paris Service



The DECA (450 km Nepter "Look" engine) of the Dalmier Astrony Co-which correct time patterness and pilot at a

Sexplanes suffer for less as that respect because they operate to Havana servess, or rightnesses town around New York

The Life of Some Airplanes

The lafe of my suppleme, that m, the steam of time without

normal. The other Fill's of the Asymmum Asympa, while was thrown agent a rechy beach, which coded her expect theoretical descriptions would rooke it appear. This is a most well worth noting when the recognitio aspects of paking With regard to the effective lair of land machines we have

from readers oreserving their experience. There is however This ship was designed at See Deepo in 1865, and healt to weeks abspace from the tene construction topses to day of the trial fight. May 15, 1816. In the following Janu the the true was too fown by Edward Olygr and Eddin Massich. mange of from 45 to 95 m.p h and a climb of 4500 ft. was mante were obtained with the Cortes OX2 15 kg, engine

dual materialism work world April, 2013, when the way we purements caused her evanes to suspend operations. operations outside her events to seepend operations of Mrter 100 kg, sugine had just been installed in the skip, and

Whitney, the ship won the free-fur-all race at Venne, on

Lord. Plemes, manager of the Royal Datch Air Navaya.

s Kengster-Monoy, consumpting with the railway It was further decided that the Central Office should some revelations for acreal services handour years all the companies. although a was responsible to maretain restain arrespon-

be regularly curred by sirplane. The Central Office was also territed to communicate with the Traffic Committee of the League of Nations. Effects will be made in the direction of oweldeatite of custombones formalities. It was further decided that meters should be excupped with exhaust allevers, that here passenger sirplenes should The French, Delgian and Cassin Storak comparies have

affected occupied of a tail skid and a new landing ever, and see O According to laber accounts the skip or still to from

Feb 23, 2000, centlying and entrimbent all other about

following September Mr. Stavenson purchased the number and reduced her in the Long Boack must hald Christman was of 1920. Printed by W. Direc, the Expubact tractor into thard place in the Sami-Free-Free-All Race (which included

ships fitted with Huspano-Surra and Hall-deset 125 to me her engine was only turning 1350 may

During all this service the only replacements that was

A reserve of the International Air Traffic Assessation on

Broand, representing the Societi Nationale pour l'Etnée des

en record that the flying machines much be able, even in 1990er. purposes, ofthough by a reprision of such landary some

Jane 1, 200

of the very low resistance offered by the surface of the un-

with wind frees the ride and frees belief. All twin have

Airship Service to India and Australia Some time not the British Overrement decided to disconpend Board. Conscident with this deepen an offer has been

Some leadings on one have been made during the our with

Dornier "Dragonfly" Lands on Ice.

Standard by the aviation seesters of the nerthern reas-

Take, which has demonstrated that he landson with motal

markets that can make landings on us without any danger of

gay damage being done can be gaged from the fact that durant

the water the ar communication is at a standerill as the

print of Navage a section of tests has recently been used on the

Derver "Broganfy" spore florag hoat (with Sweet meteorably and receivation marks) yest before taking off from the freeze which is fighting hard for the were continue, in dependent of \$4,000,000, made up of \$1,000,000 in ordinary shares and

treater, and new shops would be built sample of covering 180 paraculars and ough to ten tous of mad at a creating If the others is approved, trending two from London to

The new shore weekl be expelle of reaching ledle with

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propers. The effer to the government, he seed, stated that I company would be formed, having analable a rapital of

Commander C. Denne Herery, following his investigation

Dendeat the calculy between the countries which resuld

(1) Et-weekly server to India- (2) Alternate due sen-

to be due, with a weekly empation to Australia

Battle forestion fight over only

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K. B. Darrer, Assign, Kron-Land Swafers-Old place E. H. Land, Webble, Kron-Land Swafers-Old place

E. M. Leind, Wickitz, Kann, Land Swallow-2nd place, K. S. Garver, Atten, Kann, Land Swallow-2nd place

Spot Landing Contact with Dead Motor.

Jane 5, 300

The book describes in detail the various types of arms strikenton in variety, the equipment of the plants needing

ARMY AND NAVY AIR NEWS

Easyl Jones, A.S., of his commission on affiner of the gram, effective June 1, 1922, has been accounted by the Fact. Local. Carl M. Morre, A.S., Marker Publ. Calor. Water Officer John W. Corrorns or transferred from Warren Obert Joseph Rosephant in transferred from Waters Other rough Roseshitt to Intercept tron-lation Goog, Marsh, P. I., to Photygen Bleiden, Pt. Witter Acknoby, P. I. Mr. Belph P. Green, A.S.; Capt. Laurence P. Holen,

Front Lord Bri 7 St Lanuary, A.S. Carlespon Field, The Fire Long Halory L. Bengham, A.S., relayed from Per Ling James T Combernetch, A.S., is transferred is a niner officer at Post Face, Ohls , to accepted to propagate cence. Second Corne Area, with station at Mitchel Posts, formant ramps, Served Corps Area, with staffing at Mitchell

Arthr Field - Fant formations of the planes such assisted in

Levelowed Confield, Communications Officer for the 2nd

Ellegren Field... A class of eight student officers, transact to for SEVs named in proces, after which they merformed in During the part work twenty-these officers of the lot Guant plants. The gen expectly of this plane is just sufficient for

Pers Field-Foraters slope (DBDs) from Post Field, First Self, Ohle, push a vant on April 22 to Markoger, where the Cast Cherter B Oldfield, Exercises Officer of the oran After all lad arrived Mayor Lamphier led a 5-ship fermation ener Musicore, web Ceptum Oldfield and Louis Ville The normany of the local Chamber of Canasares, Mr. Lodin. Early visited as he arrived on the field was given a comple The heating field at Markone, which is maretained by the

hat boyen, with the black and white strain reasons verifically Matters in the 300th Observation Soundron (the Air Sur

Dorton Aeroplane & Meter Corp. Gordon City, L. L., Cur-Terrosa-Morar Arevelli Corp. Dhave, N. Y., Parkard

an office in the Central Armery at Claveland. He is being

Mick Econy Squadree-After many trade and tribulations,

officers, leaving a obsertage of only two for the full 160 per. D. C., to went coders.

cont. Enlatments are bring rought, ri bring the rationary of A rent of the anthorned strength has been negated, the The Victo Photo Section has its full offers percent of

Ast Service Reserve Users, Middle Worn-The Air Service Units rangeed to Handquarters 5th and 15th Army County Arrer Ace Service, was Headquarters Corps Air Services The redividual aquadrons, conquasas, air and ballons pay

men to regularly expensed spinderen. This is true for he With the assemble of profitting officers to the office of the who have not furgotten the feel of a princess were said.

by Cal. Pater E. Truth, Catalay, May Thornes H. Say of the denser was to arrow spirred up the Air Service and

Mare Reserve Officers Ordered Home... Pollowing to be aldelined but of Navel Recover Officers asked The hour wall Lt. Comfr. Willis B. Handard, Navel Air Status, Account Lord. Frederick H. Borker, Ba. Arricustic: Sin Sept., Lorest Pend E Officence, Naval Are Patrice Assessment Lord, Patrick E. Kenney, Naval Air Station Penn eds. Fla , Liest, Chryster N. Revier, Ra. Agranutty, Nac

(In the case of Lord P. E. Kearmer the nater waits the County, Aftert H. Taylor, det, Naval Ale Station Assembly

and his Appropriation field in Sectio-Derror the Innerson The status of the construction of the German Senselie for with New 1911 before the Newster Assessmentalisms Committee the Navy as a reparedeen ship to be known as the 2253 was solid the man or a body when a complement of a cast No. 100 Month Model and account over the bolt as passed. helds a thin country, the Nevy has spent about \$1.500,000 in and with the firsts with radio, was requested, as the 213 new per sent complete today, and will be refleted with believe Admiral Modes and The ram of \$100,000 was subal as a maintenance fund for and mount foreign belower plant, arr stations, first settention, and particular plants. Advanta Mether helius, which with Army's \$400,000 fould would know the if it today, if was stated. The behave on hand for Nevy and Army purposes totals now 2,000,000 cs. ft. manuscree and Selface for the purchase of categorie for The cost of operation and reservement of sixuals for the

Jun 5, 1922 Jan 8 p. 20.

> The said for sensel appropriations to feedin countries by the same account of the same account of the same said. Atlanton U. S. Army O. Reston (Evrlading R.A.F. or Indo., cycl. g. Preser [1921-210 Army, Navy, Colonies and

Islan Aer Force, Jan. 1, 1923, 1880 officers, 3000 man total 25 the Reput Arr Ferry was reperpted into nared and reliwant appreximate \$14 officers and \$657 error, totaling a ents are forme of 6000. In the extent of wor it was said that then figures would be increased from 50 to 100 per cont. and end characteristic date. There were no May 7 2916 officers A total of \$6,500,000 was saked for the construction of A lotar of \$6,500,500 was asked for one constitution of \$35 places for the first and \$500,500 for new construction. herbert has see seen and monapore has new construction,

as jurished on ever the construction of nicerall statems, but ton. The soften of these does brought the reservement Medic said that \$150,000 was for a new hanger sures and at Pre-mois, \$150,000 for banear and pigesboom at San Dupo, 512,000 for magnifice at San Dogre, 950,000 for slowhence and hanger at Announce; \$80,000 for a hanger at Question, making a total of \$500,000 An oursele of \$0,000 for salaries of drafteness and tech-Navel Air Stateses are built for above 657,000 was also presentable the forest or orner answering about no follows: Onlymeter, recogning \$13,650 for purchase had worth \$500,000. ted not desired as a statem; Chaffare \$11,000; Lalotherst. be forced back against the appropriation of Cabronius alle-ym and, requiring a total of \$70,000. The sate at Sand

Point West, was independ by Admiral Models as a mitable

and releable Naval Air Station, as the only other station on

Coming Aeronautical Events AMERICAN June 15-17 -- Flying Mest, Manuscuth, AX. Supe 4 - Detract Acres Water Durbs, Buttedt, Clar. tion Marrier Philar Physics Communition I Sage 15 - Detroit Aerial Derby, Duttoit, (Pallings First Annual Interservice Championship Asset - Corpe Jacques Schneider, Geoplese speed

Ann. 6 or Gurden Street, Sulley Pres Course Ann. 630 - Species and Gibbas Compatition Chemical Ass. 525 - Souther and Chiller Companion. Gentald.

Sept. 25 - Coupe Heart Descats de la Mauraha, (Abr. plane speed race.) France American obsessestion triple, 4' required, to be held obsest date, 15, at Mitchell Plaid, 2, 2,

missing it in one them. Last year's measurement out the salabar of in one from Last year's merchanter cost the Sarr 80 200,000 for synthem, Admiral Mofflet sald Radio Become Orders. The following interest officers have been

E.F. Fee 1, 1922, 5007 officers and 27,013 men, a total of 50,000, consulage to Nevel Infollowers, and 20,175 er-

"Home and well" orders have been mychol for Lt. Conde. Willia S. Havshell, Lent. Paul E. Officpes, Lant. Elsaer A.

Loteker, Lord Lenned Mathery, all of the Reserve Force. Bureau of Assessmine-Admiral W. A. Modell, Charlof the following letter, dated April 26, 1802, from Assessment Air.

"We desire to formally exposes to you and your Departmen" our approvation and graticule for the spiraded reoperation culculed us in competite with the seasth for the "Raule "Their williamen to lead every coughly assistance and the

Foreign News

Germany—Consul Dreyfus, Dresden, reports to the Department of Commerce that on April 1, a daily passenger, mail, and freight air service was restablished on the line Dresden-Berlin-Hamhurg and return; also on the line Dresden-Leipzig-Magdehurg-Hamover-Bremen and return. The trip from Bremen to Hamhurg takes 4½ hr, including a half-hour stop in Berlin. The journey to Bremen requires five hours, in-

endning Jis-min. skops at Lehpidg, Magdelmag, and Hanover. The fare from Dresden to Berlin is 600 marks and from Berlin to Humburg 650 marks. This compares with 285 marks and 375 marks, respectively, for the first-class ratilway leading is 500 marks and from Leipzig to Bremen L.300 marks as compared with 100 marks and from Leipzig to Bremen L.300 marks as compared with 100 marks and 550 marks, respectively, for first-class railway fare between these points. Fifteen kilos of laggage is carried without charge, and all excess at the

rate of 15 marks per kilo.

It is reported that a service from Dresden to Prague will be inaugurated in June.

Belgium—Acting Commercial Attaché Cross, Brussels, protra that the "Sindat", a government-snabilizade arrial transportation company in Belgium, has finished its trial period of passenger, merbandise, and postal aerial transportation company in Belgium, has finished its trial period passenger, merbandise, and postal aerial transport service London, Amsterdam, The Hague). Belgiam participation on these lines with, therefore, cease from June 1, 1922, leaving the production of th

in May of the present year.

The Belgian government is studying the creation of a permanent organization which will permit that country to conserve an important position in international aerial transportation.

Venezuela—Vice Consul S. J. Fletcher, at La Gruziro, state that excepting a few exhibition flights made at Carnons, the capital, there have been no attempts to introduce civil or commercial aviation in Venezuela. For military aviation, a formation of the commercial control of the commercial that interest in the company, made any of two officers and E man, with bacdquarters at Marneay, State of Arngua. During 1921 instruction in military aviation was given by or whom eleven succeeded in dying alone, and five qualified or whom eleven succeeded in dying alone, and five qualified

as pilots. The equipment consists of six Candron and two Farman seplanes, and two Candron and two Farman seplanes, and two Candron and two Farman seplanes. A bought from the French Government, intit be equipment on hand is considered insufficient, and instruction in flying has considered insufficient, and instruction in flying has seemed, awaiting the purchase of further equipment which the serveral flying routes have been held up from lack of funds, and it is expected that the waning interest in availation will have proportionated to execute these proposals in the near future.

New Zealsed—The Auckland Service Aere, Club hus completed negotiations with the New Zealand Aero Tramsport Co. for the amalgamation of their interests in the Auckland district. The combined interests plan to link Auckland with Wellingston by air and to establish branches from those points. Wellingston by air and to establish branches from those points are routes surveyed and plottles are called in having regular air routes surveyed and plottles are routed as a route of the have already been made for the importation of three airplanes, and additional capital to the amount of £20,000 is being drome.—Genmere Reports.

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